WEST Search History

DATE: Tuesday, November 12, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT; PLUR=YES; OP=AND			
L19	L18 and galectin	0	L19
L18	l16 and L17	49	L18
L17	daniel.in.	36166	L17
L16	hsu.in.	3716	L16
L15	L14 and galectin	0	L15
L14	l12 and L13	37	L14
L13	hideki.in.	5973	L13
L12	sano.in.	2371	L12
L11	l9 and L10	2	L11
L10	fu-tong.in.	4	L10
L9	liu.in.	5535	L9
L8	monocyte or macrophage	18454	L8
L7	l3 and L6	17	L7
L6	migration	56872	L6
L5	l3 and L4	8	L5
L4	cell with migration	6367	L4
L3	l1 or L2	27	L3
L2	galectin adj 3	27	L2
L1	galectin-3	26	L1

END OF SEARCH HISTORY

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FILE 'HOME' ENTERED AT 11:38:35 ON 12 NOV 2002

=> file caplus medline biosis

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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FILE 'BIOSIS' ENTERED AT 11:38:44 ON 12 NOV 2002
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=> galectin 3

L1          1152 GALECTIN 3

=> cell(s)migrat?

L2        120256 CELL(S) MIGRAT?

=> l1 and l2

L3            61 L1 AND L2

=> l3 and 1970-2000/py

L4            40 L3 AND 1970-2000/PY

=> monocyte or macrophage

L5        447251 MONOCYTE OR MACROPHAGE

=> l1 and l5

L6           160 L1 AND L5

=> l3 and l5

L7            11 L3 AND L5

=> l4 and l5

L8             8 L4 AND L5

=> dup rem l8

PROCESSING COMPLETED FOR L8
L9             4 DUP REM L8 (4 DUPLICATES REMOVED)

=> d ti abs so l9 1-4
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L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
TI Human **galectin-3** is a novel chemoattractant for **monocytes** and **macrophages**
AB **Galectin-3** is a .beta.-galactoside-binding protein implicated in diverse biol. processes. The authors found that **galectin-3** induced human **monocyte** migration in vitro in a dose-dependent manner, and it was chemotactic at high concns. (1.0 .mu.M) but chemokinetic at low concns. (10-100 nM). **Galectin-3**-induced **monocyte** migration was inhibited by its specific mAb and was blocked by lactose and a C-terminal domain fragment of the protein, indicating that both the N-terminal and C-terminal domains of **galectin-3** are involved in this activity. Pertussis toxin (PTX) almost completely blocked **monocyte** migration induced by high concns. of **galectin-3**. **Galectin-3** caused a Ca2+ influx in **monocytes** at high, but not low, concns., and both lactose and PTX inhibited this response. There was no cross-desensitization between **galectin-3** and any of the **monocyte**-reactive chemokines examd., including **monocyte** chemotactic protein-1, **macrophage** inflammatory protein-1.alpha., and stromal cell-derived factor-1.alpha.. Cultured human **macrophages** and alveolar **macrophages** also migrated toward **galectin-3**, but not **monocyte** chemotactic protein-1. Finally, **galectin-3** was found to cause **monocyte** accumulation in vivo in mouse air pouches. Thus, **galectin-3** is a novel chemoattractant for **monocytes** and **macrophages** and its effect is mediated at least in part through a PTX-sensitive (G protein-coupled) pathway.
SO Journal of Immunology (**2000**), 165(4), 2156-2164
CODEN: JOIMA3; ISSN: 0022-1767

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
TI **Galectin-3** gene (LGALS3) expression in experimental atherosclerosis and cultured smooth muscle cells
AB The **galectin-3** gene (LGALS3) encodes a .beta.-galactose-binding lectin. LGALS3 expression is assocd. with neoplastic transformation and with differentiation of **monocytes** to **macrophages**. Factors involved in **migration**, proliferation, adhesion, and differentiation of vascular smooth muscle **cells** (SMC) play a major role during atherosclerosis development. Expression of the **galectin-3** gene was not detected in quiescent SMC but was activated in aortas of hypercholesterolemic rabbits, in aortas of rats after balloon injury, and in cultured SMC. Thus, **galectin-3** prodn. is involved in the developmental process of atherogenesis.
SO FEBS Letters (**1998**), 430(3), 307-311
CODEN: FEBLAL; ISSN: 0014-5793

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS
TI Maintenance of granulocyte numbers during acute peritonitis is defective in **galectin-3**-null mutant mice
AB **Galectin-3**, also known as the **macrophage** marker Mac-2, is a member of a family of structurally related animal lectins that exhibit specificity for .beta.-galactosides. To investigate the role of **galectin-3** in acute inflammation, the authors compared the no. of leukocytes present in the peritoneal cavity of wild type and **galectin-3** null mutant mice after i.p.

injection of thioglycolate broth. At day 1 after injection, the authors found no difference in the recruitment of mononuclear phagocytes and granulocytes to the peritoneal cavity. However, 4 days after thioglycolate injection, **galectin-3** mutant mice exhibited a significantly reduced no. of recoverable granulocytes compared to wild-type animals. As mutant granulocytes did not exhibit an accelerated rate of apoptosis and their uptake by **macrophages** appeared to be unaffected by the mutation, the phenotype described here suggests that **galectin-3** participates in an addnl. level of control during the resoln. of acute inflammation.

SO Immunology (**1998**), 94(3), 290-296
CODEN: IMMUAM; ISSN: 0019-2805

L9 ANSWER 4 OF 4 MEDLINE DUPLICATE 3

TI Soybean agglutinin binds a 160-kDa rat **macrophage** membrane glycoprotein and enhances cell differentiation and activation.

AB Mature **macrophages** (M phi) differ from other rat leukocytes by their ability to bind soybean agglutinin (SBA). In this study we identify the SBA-binding structure on rat bone marrow-derived M phi (BMDM phi). Precipitation of iodinated membrane proteins from rat bone marrow **cells** (BMC) and BMDM phi with SBA revealed a major glycoprotein of Mr 160 kDa on BMDM phi but not on BMC. In addition minor bands **migrating** at 70 and 26 kDa were seen. Stimulation of BMDM phi with 100 nM SBA induced a decrease in surface density of Thy1.1 (MRC OX7) and His54 and an increase in the expression of MRC OX6 (RT1.B/I-A), MRC OX17 (RT1.D/I-E), MRC OX41 (gp 110/120), MRC OX42 (CD11b/c), Macl (CD11b/CR3) and Mac2 (**galectin-3**/IgE binding protein) antigen. Expression of other M phi differentiation antigens recognized by mAb MRC OX43 (M phi, endothelial **cells**) and ED9 (M phi/CD14 like) were not significantly altered. BMDM phi derived from cultures with M phi colony-stimulating factor (M-CSF) and SBA showed increased oxidative burst and phagocytic activity compared to **cells** cultured with M-CSF alone. Our data suggest that binding of a 160-kDa membrane glycoprotein on M phi by N-acetylgalactosamine-specific lectins stimulates M phi differentiation and activation.

SO IMMUNOLOGY LETTERS, **(1996 Aug)** 52 (1) 53-6.
Journal code: 7910006. ISSN: 0165-2478.

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FAOM Checklist

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✓ 07-34